

New Records of *Metleucauge davidi* (Araneae: Tetragnathidae) from Taiwan with the First Description of the Male.

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谷川明男¹⁾・張 永浩²⁾: *Metleucauge davidi* (クモ目:
アシナガダマ科) の台湾での新記録および雄の初記載

Abstract *Metleucauge davidi* (SCHENKEL, 1963) is newly recorded from Taiwan.
The male of the species is described for the first time.

Metleucauge davidi (SCHENKEL, 1963) was described under the genus *Meta* based on the female holotype from Shensi, China. After LEVI (1980) described the genus *Metleucauge*, CHENG and ZHANG (1991) transferred the species to the genus *Metleucauge* and recorded it from Zhejiang, China. The male of the species has not been described up to the present. Recently, Yung-Hau CHANG, collected two specimens of a spider species probably belonging to *Metleucauge* at Mt. Chilai-shan, Hualien Hsien, Taiwan. After careful examination, we identified it as *Metleucauge davidi*. In this paper, the spider is newly recorded from Taiwan, and the male of the species is described for the first time.

The Taiwanese specimens examined in this paper are deposited in the collection of the Department of Zoology, National Science Museum, Tokyo (NSMT).

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Metleucauge davidi (SCHENKEL, 1963)
(Figs. 1–6)

Meta davidi SCHENKEL, 1963, p. 130. (♀ Holotype from Shensi, China, Preserved in MNHN, examined.)

Metleucauge davidi: CHEN & ZHANG, 1991, p. 103.

Specimens examined. Holotype: ♀, Hantschong fu, Süd Schensi, China, 1873 (MNHN B1064).

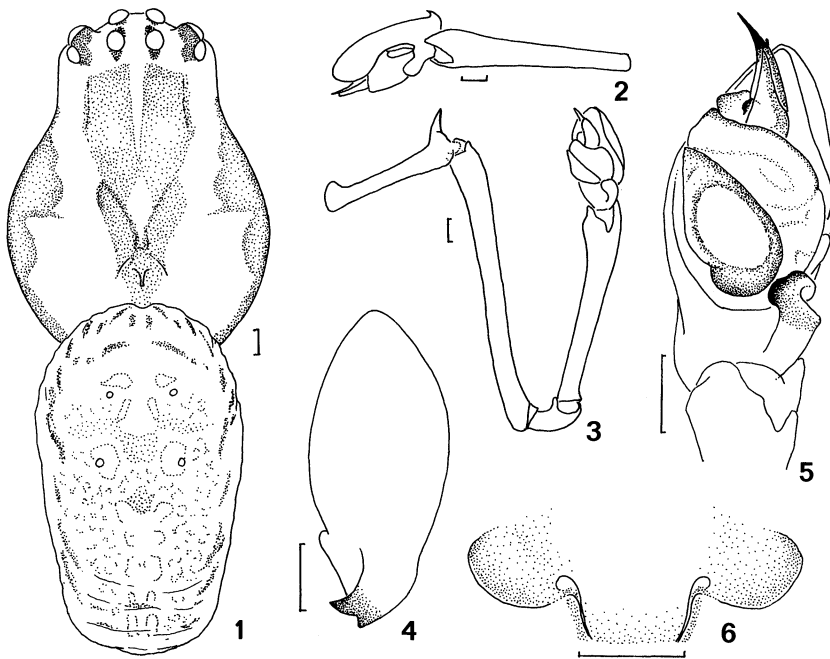
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Figs. 1-6. *Metleucauge davidi* (SCHENKEL, 1963) (Male: NSMT-Ar 3383; female: NSMT-Ar 3384.)—1. Male carapace and abdomen, dorsal view. 2. Tarsus and tibia of male palp, retrolateral view. 3. Male palp, general view. 4. Cymbium of male palp, dorsal view. 5. Tarsus of male palp, ventral view. 6. Epigynum, ventral view. (Scales: 0.25 mm.)

Table 1. Measurement of leg segments of *Metleucauge davidi* (SCHENKEL, 1963) (in mm; ♂/♀).

Leg	Tarsus	Metatarsus	Tibia	Patella	Femur	Total
I	2.60/2.42	9.00/7.25	7.50/6.25	2.00/1.92	7.50/6.54	28.60/24.38
II	1.70/1.67	5.80/4.83	4.95/4.21	1.65/1.67	5.55/4.92	19.65/17.30
III	1.05/1.00	2.80/2.50	2.30/2.17	1.00/1.08	3.35/2.92	10.50/9.67
IV	1.20/1.17	4.60/3.96	4.10/3.67	1.10/1.25	4.80/4.50	15.80/14.55

Specimens from Taiwan. 1 ♂ 1 ♀, Mt. Chilai-shan, 3,000 m alt, Taroko National Park, Hualien Hsien, Taiwan, 27-IX-1996, Y.-H. CHANG leg. (NSMT-Ar 3383-3384).

Description. Measurement (in mm). Total length, ♂ 7.38, ♀ 8.33; carapace length ♂ 3.64, ♀ 3.68; width ♂ 2.64, ♀ 2.88; abdomen length ♂ 3.60, ♀ 4.50; width ♂ 2.24, ♀ 3.00. Length of legs of male and female from Taiwan (NSMT-Ar 3383-3384) as shown in Table 1.

Male: Carapace length/width 1.38, median ocular area length/width 0.91, anterior width/posterior width 0.89. Chelicera with 3 promarginal and 4 retromarginal teeth. Labium length/width 0.82, sternum length/width 1.17. Length of leg I/length of carapace 7.86. Male palp (Figs. 2-5): tibia two times as long as cymbium (tibia/cymbium 2.00), femur about three times as long as cymbium (femur/cymbium 2.88),

femur about one and a half times as long as tibia (femur/tibia 1.48). Abdomen length/width 1.61.

Female: Carapace length/width 1.28; median ocular area length/width 0.88, anterior width/posterior width 0.83. Chelicera with 3 promarginal and 4 retromarginal teeth. Labium length/width 0.71, sternum length/width 1.11. Abdomen length/width 1.50. Epigynum with a gently sloping bulge in the middle (Fig. 6).

Coloration and markings in alcohol. Male and female: Carapace light brown, margined with dark brown, with V-shaped dark brown marking between eye area and median fovea (Fig. 1). Abdomen dusky white with dark colored markings.

Range. China (Shensi and Zhejiang), Taiwan.

Remarks. The general appearance of *Metleucauge davidi* resembles *M. chikunii* TANIKAWA, 1992, and *M. eldorado* LEVI, 1980. The epigynum of *M. davidi* closely resembles that of *M. eldorado*, and quite different from that of *M. chikunii* (cf. Fig. 6; LEVI, 1980, fig. 137; TANIKAWA, 1992, fig. 21.). *M. chikunii* is occurring in Japan and Taiwan, while *M. eldorado* is occurring in U.S.A. Judging from the shape of the epigynum, *M. davidi* seems to be more closely related to American *M. eldorado* rather than Asian *M. chikunii*. *M. davidi* can be separated from *M. eldorado* by the shape of the male palp (cf. Figs. 2-5; LEVI, 1980, figs. 145-150).

摘 要

Metleucauge davidi (SCHENKEL, 1963) を台湾から初めて記録した。また、本種の雄を初めて記載した。

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